

MSDS *GHS Safety Data Sheet*

THE PENRAY COMPANIES, INC.

DIESEL COOLING SYSTEM TREATMENT 1816

MSDS Number: 1816

Revision Date: 03/04/2009

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

THE PENRAY COMPANIES INC.
440 Denniston Ct
Wheeling, IL 60090

Contact: EH&S Manager
Phone: (847) 459-5000
Fax: (847)459-5043

Product Name: DIESEL COOLING SYSTEM TREATMENT 1816
Revision Date: 03/04/2009
Version: 7
MSDS Number: 1816
Common Name: AN AQUEOUS SOLUTION OF NITRITES, NITRATES AND SODIUM TETRABORATE

EMERGENCY PHONE NUMBER (800) 752-7869

NFPA 704M RATING :

HEALTH:1 FIRE:0 REACTIVITY: 0 SPECIAL:

O=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

2 COMPOSITION/INFORMATION ON INGREDIENTS

Route of Entry: Skin absorption ,inhalation, eye contact, ingestion
Target Organs: None Known
Inhalation: No hazard in industrial use.
Skin Contact: Prolonged contact with skin can cause irritation.
Eye Contact: Will cause irritation upon contact.
Ingestion: Irritating to mouth, throat, and stomach. May cause discomfort, nausea, vomiting and diarrhea.

CARCINOGENICITY: Product is not considered a carcinogen by OSHA, NTP or IARC.

MEDICAL CONDITIONS: Pre-existing eye or skin conditions may be aggravated by over-exposure to this product.

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3 HAZARDS IDENTIFICATION

Ingredients:

CHEMICAL NAME	CAS NUMBER	PERCENT WEIGHT
SODIUM NITRITE	7632-00-0	3-8%
SODIUM METASILICATE	6834-92-0	2-7%
SODIUM TETRABORATE	1330-43-4	2-6%
SODIUM NITRATE	7631-99-4	1-3%
SODIUM HYDROXIDE	1310-73-2	1-5%
WATER	7732-18-5	>80%

4 FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention. Inhalation hazard unlikely due to low volatility of product.

Skin Contact: Wash area with soap and water. seek medical attention if irritation persists

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Induce vomiting. Only give CONSCIOUS victim two glasses of water and seek medical attention. NEVER give UNCONSCIOUS anything by mouth.

5 FIRE FIGHTING MEASURES

Flash Point: N/A

Product will not support combustion

6 ACCIDENTAL RELEASE MEASURES

SPILL/LEAK PROCEDURES: Notify safety personnel evacuate all unnecessary personnel and provide adequate ventilation. If feasible, and without risk, clean-up personnel should stop leak. All clean up personnel should wear proper personal protective equipment.

SMALL SPILLS: Clean with inert absorbent and place in recovery drums for disposal.

LARGE SPILLS: Dike to prevent further migration of material. DO NOT release into waterways or sewers. Follow applicable federal and state regulations.

7 HANDLING AND STORAGE

Handling Precautions: Wash thoroughly after handling. Do not get into eyes, on skin or on clothing.. Do not smoke while using this product. Do not use near excessive heat, sparks, or open flame.

Storage Requirements: Store in clean, dry locations away from excessive heat.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eye wash station and safety shower.
Strong general ventilation or local exhaust.

Personal Protective Equip: EYE: Chemical splash goggles with indirect or no ventilation.
SKIN :Chemical resistant gloves such as nitrile.
RESPIRATORY: Organic vapor air purifying respiator if vapors are a nuisance or if the concentrations are above PEL or TLV.
Never eat drink or smoke in the work area.

Never eat, drink or smoke in work area

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red liquid	Odor:	None
Physical State:	Liquid	Solubility:	Completely
Spec Grav./Density:	1.09	Vapor Density:	>1
Boiling Point:	BT 212 - 215 F		
pH:	12.0		

10 STABILITY AND REACTIVITY

Stability: Material is stable.

Conditions to Avoid: Excessive heat and open flame.

Materials to Avoid: Strong oxidizing agents and reducing agents

Hazardous Decomposition: Carbon Monoxide and Carbon Dioxide

Hazardous Polymerization: Cannot occur.

11 TOXICOLOGICAL INFORMATION

LD50

Sodium Nitrite : 120 mg/kg (oral)

Sodium Nitrate : 4300mg/kg (oral)

Sodium Tetraborate: 3200 mg/kg (oral)

12 ECOLOGICAL INFORMATION

No data

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13 DISPOSAL CONSIDERATIONS

As a waste, this product in its raw form DOES NOT MEET the criteria of a hazardous waste as defined by RCRA (40CFR361).

Dispose of in accordance with all applicable state, federal and local regulations.

14 TRANSPORT INFORMATION

DOMESTIC:
Not Regulated

EXPORT:
Not Regulated

15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA: Considered to be a hazardous material as defined by 29CFR1910.1200

EPA SARA TITLE III

Section 311-312 (40CFR370): If stored in excess of the threshold quantities, this product should be reported as a(n):
IMMEDIATE (acute) HEALTH HAZARD

Section 313(40CFR372) This product does not contains ingredients which are subject to the reporting requirements of SARA 313:

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OTHER INFORMATION

CALIFORNIA PROPOSITION 65: This product does not contain ingredients which are on the current Proposition 65 list.

NEW JERSEY RIGHT-TO-KNOW: This product contains the following ingredients which are non-hazardous, but are among the top five ingredients in this product:

-----CAS#-----

7732-18-5: Water

7631-99-4: Sodium Nitrite

7631-00-0: Sodium Nitrate

1330-43-4: sodium Tetraborate

Notes:

NG= NOT GIVEN

BT= BETWEEN

<= LESS THAN

>= GREATER THAN

USERS RESPONSIBILITY; This MSDS provides environmental, health and safety information. This product is to be used in applications consistent with our product literature and container label. Individuals handling this product should be informed to the recommended safety precautions and have access to this MSDS. Please contact your local sales representative or our EH&S Department for further information.

END OF MSDS